DATA SHEET

Product Name:	Alpha-Synuclein, Desalted
Catalog #:	S-1153
Source:	Recombinant. A DNA sequence encoding the human alpha-synuclein (1-140) sequence was expressed in E. coli
Molecular Mass:	14,460 Da theoretical
Protein Purity:	>95% by SDS-PAGE and Mass Spec.
Counter Ion:	20mM Tris-HCl, pH 7.4
Supplied As:	White lyophilized powder
Resuspension:	Resuspend in water at conc. of .1-1 mg/ml. Recommended to briefly centrifuge to ensure full resuspension of product.
Storage:	–20^{0}C
Description:	Alpha-Synuclein (α-Synuclein) is a 14 kD (140 amino acids) acidic presynaptic protein and is a major component of Parkinson's Disease (PD) aggregates. α-Synuclein is implicated in the pathogenesis of PD and related neurodegenerative disorders. α-Synuclein also accumulates in the brains of sporadic PD patients as a major component of Lewy bodies, which are intraneuronal cytoplasmic inclusions characteristic of PD. α-Synuclein appears to associate with other proteins that aggregate and is found in beta-amyloid plaques and neuritic tangles in Alzheimer's disease[3]. rPeptide offers a wide array of synuclein products, including fragments, mutants, preformed fibrils, and labeled versions in addition to the wild-type protein. While our catalog product S-1001 is offered in a final buffer containing salt, this product is desalted. After receiving feedback from customers with experiments that can receive interference from salt, we have made this new product in an effort to better fulfill the needs of customers with similar experimental constraints.
References:	1. Conway, K., et al., (2000) Biochemistry, *39* : 2552 2. Jakes, R., et al., (1994) FEBS Letters, *345* : 27 3. Masliah, E., et al., (2001) Proc. Natl. Acad. Sci., USA, *98* : 12245 4. Ueda, K., et al., (1993) Proc. Natl. Acad. Sci., USA, *90* : 11282 5. Grozdanov, V., et al., (2019) Ann Neurol, *86(4)* : 593-606

For research use only. Not for use in humans.

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